

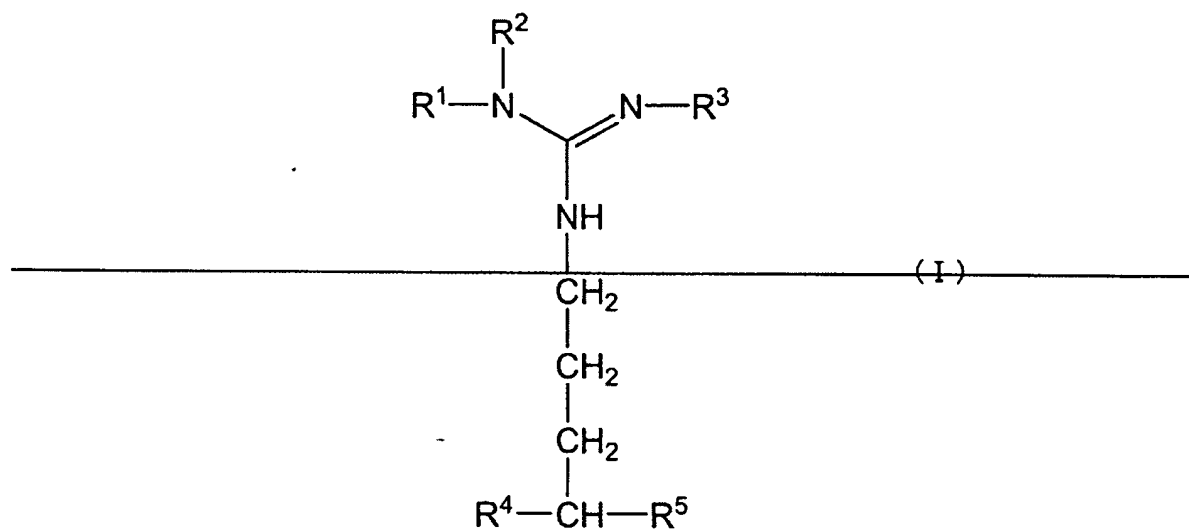
AMENDMENTS TO THE CLAIMS:

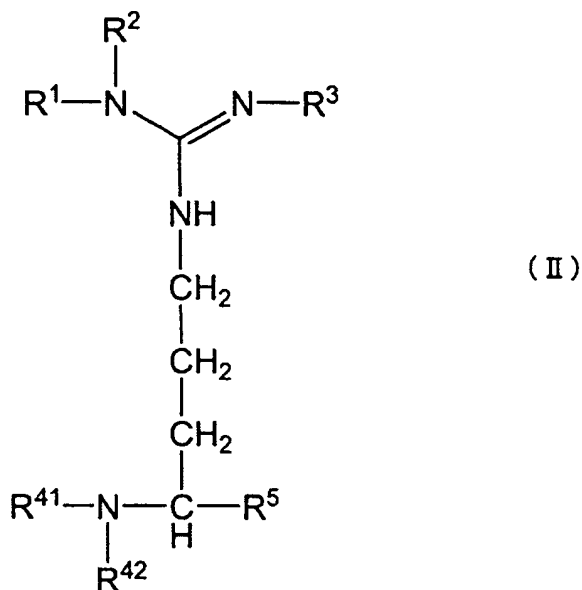
This listing of claims will replace all prior versions and listings of claims in the application:

The listing of claims

Claim 1 (currently amended): A compound represented by the general formula (I) or a salt thereof:

[Formula 1]





wherein R^1 , R^2 and R^3 each independently represent a hydrogen atom or an alkyl group having 1 to 3 carbon atoms, provided that at least one of R^1 , R^2 and R^3 does not represent a hydrogen atom; ~~R^4 represents an amino group which has a substituent;~~ R^{41} represents a group represented by $\text{R}^{401}\text{CO}-$ where R^{401} represents a hydrogen atom, a unsaturated chain a hydrocarbon group which optionally has a substituent, an alicyclic hydrocarbon group which optionally has a substituent, an aromatic hydrocarbon group which optionally has a substituent, or a heterocyclic group which optionally has a substituent, or a group represented by $\text{R}^{402}\text{S(O)}_m-$ where R^{402} represents a hydrogen atom, a hydrocarbon group which optionally has a substituent or a heterocyclic group which optionally has a substituent, and m is an integer of 1 or 2; R^{42} represents a hydrogen atom or an alkyl group having to 1 to 3 carbon atoms; and R^5 represents a carboxyl group which ~~may have~~ optionally has a substituent.

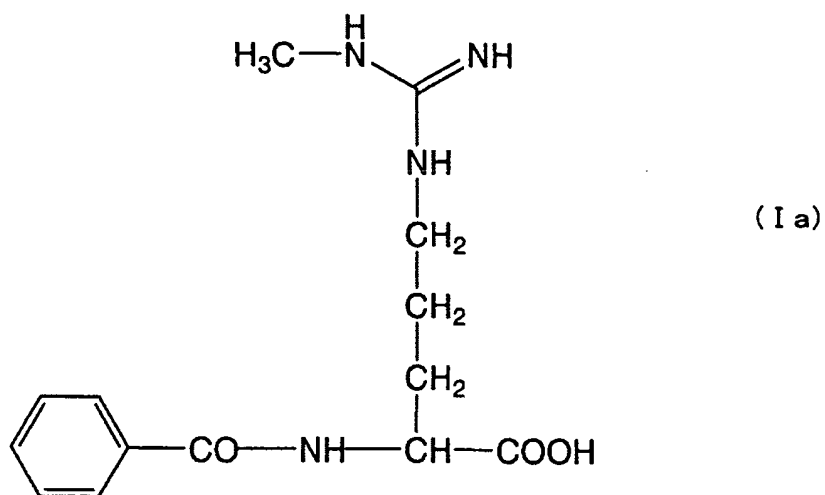
Claim 2 (cancelled).

Claim 3 (currently amended): The compound or salt thereof according to Claim 2 1, wherein R⁴¹ represents a benzoyl group which ~~may have~~ optionally has a substituent, a benzoylpeptidyl group which ~~may have~~ optionally has a substituent, a dansyl group which ~~may have~~ optionally has a substituent or a dansylpeptidyl group which ~~may have~~ optionally has a substituent; and R⁴² represents a hydrogen atom.

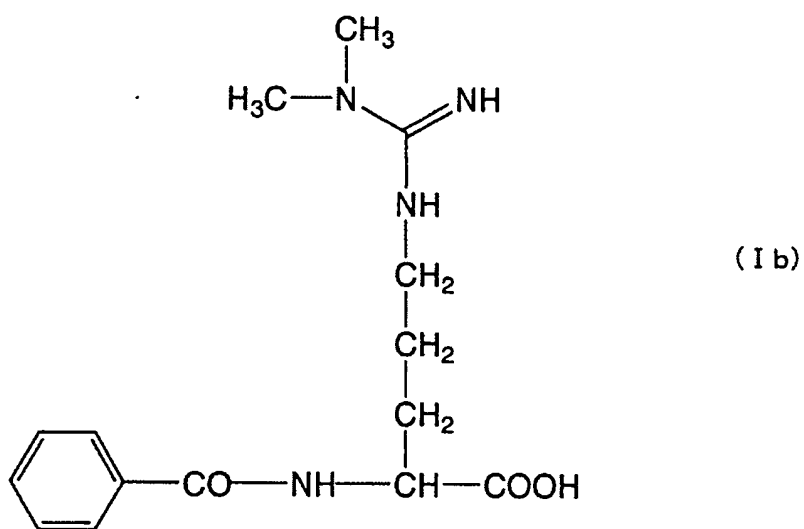
Claim 4 (currently amended): The compound or salt thereof according to ~~any one of Claims 1 to 3~~ claim 1, wherein R¹, R² and R³ each independently represent a hydrogen atom or a methyl group, provided that at least one of R¹, R² and R³ represents a methyl group.

Claim 5 (currently amended): The compound or salt thereof according to Claim 4, which is a compound represented by the formula (Ia), (Ib) or (Ic) or a salt thereof.

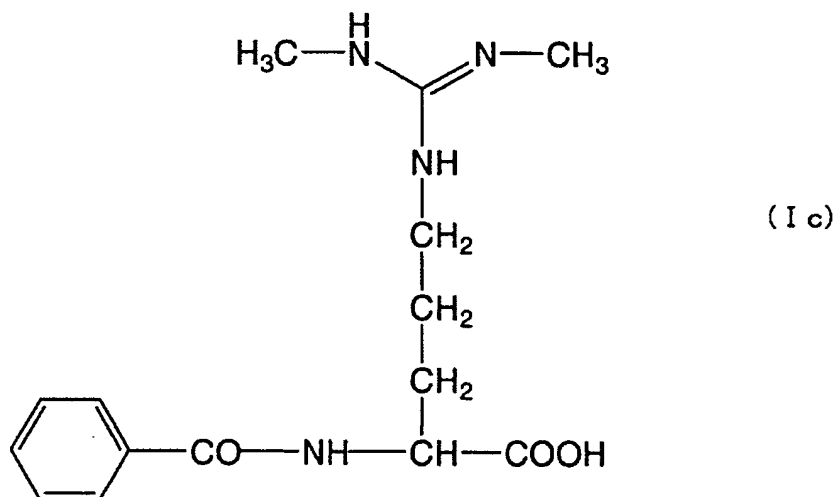
[Formula 3 2]



[Formula 4 3]



[Formula 5 4]

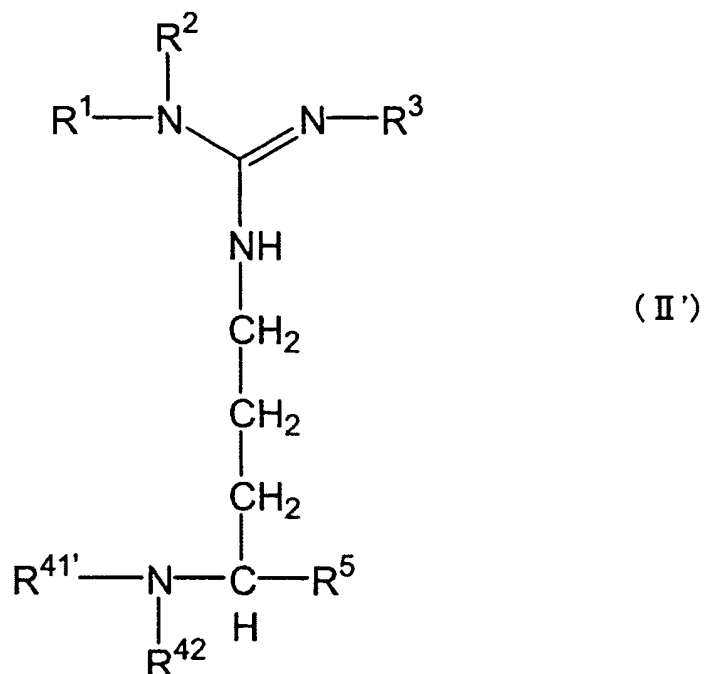


Claim 6 (cancelled).

Claim 7 (cancelled).

Claim 8 (currently amended): A peptidylarginine deiminase 4 inhibitor comprising, as the active ingredient, ~~an arginine derivative having substituent on each of the amino and guanidino groups in arginine and optionally having a substituent on the carboxyl group in arginine~~ a compound represented by the general formula [II'] or a salt thereof:

[Formula 5]



wherein R¹, R² and R³ each independently represent a hydrogen atom or an alkyl group having 1 to 3 carbon atoms, provided that at least one of R¹, R² and R³ does not represent a hydrogen atom; R^{41'} represents a group represented by R^{401'}CO- where R^{401'} represents a hydrogen atom, a hydrocarbon group which optionally has a substituent or a heterocyclic group which optionally has a substituent, or a group represented by R⁴⁰²S(O)_m- where R⁴⁰² represents a hydrogen atom, a hydrocarbon group which optionally has a substituent or a heterocyclic group which optionally has a substituent, and m is an integer of 1 or 2; R⁴² represents a hydrogen atom or an alkyl group having 1 to 3 carbon atoms; and R⁵ represents a carboxyl group which optionally has a substituent.

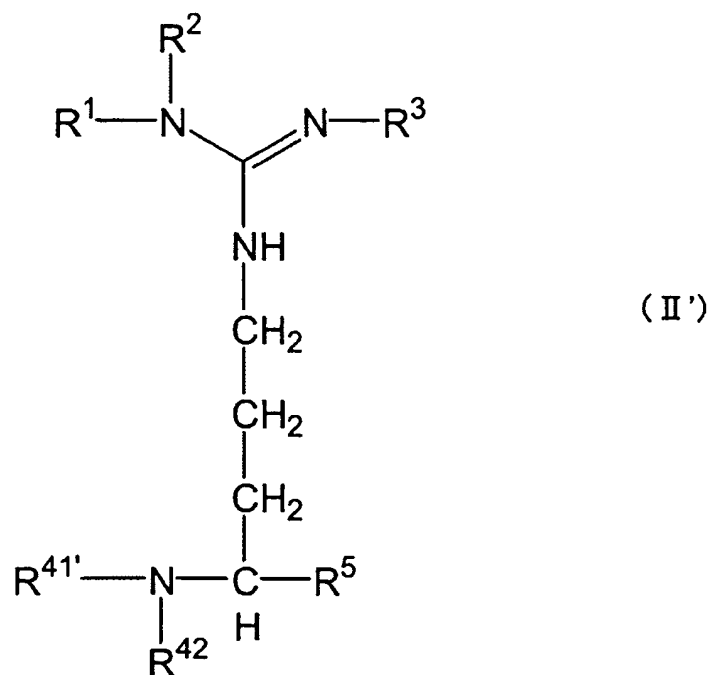
Claim 9 (cancelled).

Claim 10 (current amended): The peptidylarginine deiminase 4 inhibitor according to ~~any one of Claims 6 to 9~~ Claim 8, which is used for the prevention and/or treatment of diseases associated with peptidylarginine deiminases.

Claim 11 (original): The peptidylarginine deiminase 4 inhibitor according to Claim 10, wherein the diseases associated with peptidylarginine deiminase are selected from the group consisting of rheumatoid arthritis, psoriasis, and multiple sclerosis.

Claim 12 (new): A method of manufacturing a peptidylarginine deiminase 4 inhibitor, as the active ingredient, which is represented by the general formula [II'] or a salt thereof:

[Formula 5]



comprising:

providing independently for R^1 , R^2 and R^3 a hydrogen atom or an alkyl group having 1 to 3 carbon atoms, such that at least one of R^1 , R^2 and R^3 does not represent a hydrogen atom;

providing for $R^{41'}$ a group represented by $R^{401'}CO-$ where $R^{401'}$ represents a hydrogen atom, a hydrocarbon group which optionally has a substituent or a heterocyclic group which optionally has a substituent, or a group represented by $R^{402}S(O)_m-$ where R^{402} represents a hydrogen atom, a hydrocarbon group which optionally has a substituent or a heterocyclic group which optionally has a substituent, and m is an integer of 1 or 2;

providing for R^{42} a hydrogen atom or an alkyl group having 1 to 3 carbon atoms;
and

providing for R^5 a carboxyl group which optionally has a substituent.

Claim 13 (new): A method of treatment with the peptidylarginine deiminase 4 inhibitor according to Claim 8, comprising:

administering the peptidylarginine deiminase 4 inhibitor to prevent and/or treat diseases associated with peptidylarginine deiminases.

Claim 14 (new): A method of treatment with the peptidylarginine deiminase 4 inhibitor according to Claim 13, wherein the diseases associated with peptidylarginine deiminase are selected from the group consisting of rheumatoid arthritis, psoriasis, and multiple sclerosis.

Claim 15 (new): A method of treatment with the compound or a salt thereof according to Claim 1, comprising:

administering the compound or a salt thereof to prevent and/or treat diseases associated with peptidylarginine deiminases.

Claim 16 (new): A method of treatment according to Claim 15, wherein the diseases associated with peptidylarginine deiminase are selected from the group consisting of rheumatoid arthritis, psoriasis, and multiple sclerosis